

WHAT IS CLAIMED IS:

1. A driving device for an image carrying member for rotationally driving the image carrying member by transmitting a rotational driving force of a driving power source to the image carrying member comprising:

a rotating member for rotating in contact with at least one of a driving force transmitting member and the image carrying member, which are arranged in a driving force transmission path for transmitting the driving force to the image carrying member,

the rotating member for rotating in contact with the driving force transmitting member or the image carrying member, and providing, upon occurring fluctuation in velocity of the driving force transmitting member or the image carrying member, a viscous effect that suppresses the fluctuation in velocity.

2. A driving device as claimed in claim 1, wherein the rotating member providing the viscous effect comprises a rotating member rotationally driven at the substantially same velocity as the driving force transmitting member or the image carrying member.

3. A driving device as claimed in claim 2, wherein the rotating member is rotationally driven with the same driving power source as that driving the image carrying member.

4. A driving device as claimed in claim 2, wherein the rotating member is rotationally driven with a different driving power source from that driving the image carrying member.

5. A driving device as claimed in claim 2, wherein the rotating member providing the viscous effect is rotationally driven at a velocity with a difference in peripheral velocity of 1% or less from the driving force transmitting member or the image carrying member.

6. A driving device as claimed in claim 1, wherein the rotating member providing the viscous effect is driven by the driving force transmitting member or the image carrying member and comprises a driven roll with a viscous damper operated by connecting thereto.

7. A driving device as claimed in claim 1, wherein the image carrying member comprises an endless belt member.

8. A driving device as claimed in claim 7, wherein the rotating member providing the viscous effect is made in contact with an inner surface of the belt member.

9. A driving device as claimed in claim 7, wherein the rotating member providing the viscous effect is made in contact with an outer surface of the belt member.

10. A driving device as claimed in claim 7, wherein the rotating member providing the viscous effect is provided with a pressing member at a position opposite thereto with respect to the belt member.

11. A driving device as claimed in claim 7, wherein the rotating member providing the viscous effect is positioned in vicinity of a driving roll for driving the belt member.

12. A driving device as claimed in claim 11, wherein the rotating member providing the viscous effect is positioned on a downstream of the driving roll for driving the belt member and on an upstream of a load system.

13. A driving device as claimed in claim 1, wherein the image carrying member comprises a photoreceptor drum.

14. A driving device as claimed in claim 13, wherein the photoreceptor drum is made in contact with a rotating member rotationally driven at the substantially same velocity as the photoreceptor drum, and the rotating member also functions as charging roll, a developing roll or a cleaning roll.

15. A driving device as claimed in claim 13, wherein the photoreceptor drum is made in contact with a belt member cyclically driven at the substantially same velocity as the photoreceptor drum.

16. A driving device as claimed in claim 13, wherein the driving force transmitting member for transmitting a driving force from a driving power source to the photoreceptor drum is made in contact with a rotating member rotationally driven at the substantially same velocity as the photoreceptor drum.

17. An image forming apparatus comprising:

a endless member supporting system comprising a endless member for carrying an image or a medium having an image formed thereon; and

a vibration model comprising a driving system comprising

a driving unit for rotating the endless member;

the endless member supporting system having a resonance point in the range outside of from 10 to 100 Hz.

18. An image forming apparatus comprising:

a endless member for carrying an image or a medium having an image formed thereon;

a first driving unit for rotating the endless member;  
and

a second driving unit connected to the endless member and applying a driving force with the substantially same rotation number as the first driving unit.

19. An image forming apparatus as claimed in claim 18, wherein the first driving unit and the second driving unit receive a driving force from the same motor.